

List of Figures

Figure 1. Royal red shrimp <i>Pleoticus robustus</i>	15
Figure 2. Scarlet shrimp <i>Plesioenaeus edwardsianus</i>	15
Figure 3. Length types illustrated on different fish tails	34
Figure 4. Squid mantle length illustrations.....	34
Figure 5. Scallop shell height illustration	34
Figure 6. Clam shell width illustrations	35
Figure 7. Crab carapace width illustration	35
Figure 8. Lobster carapace length illustration	35
Figure 9. Examples of otoliths from a variety of fish	36
Figure 10. Standard method of dissecting a fish skull to remove otoliths	36
Figure 11. Location from which to remove otoliths from ventral side of fish	36
Figure 12. Location and angle of the necessary cut to remove otoliths from various fish	37
Figure 13. Location from which to collect scales from various fish	38
Figure 14. Age structure envelope.....	39
Figure 15. Tuna length measurements and age sample parts illustration.....	41

List of Figures (con't)

Figure 16. Shark length measurements and age sample parts illustration	41
Figure 17. Billfish length measurements and age sample parts illustration	41
Figure 18. Swordfish length measurements and age sample parts illustration	41
Figure 19. Examples of tagging location for sharks/fish	42
Figure 20. Biological Sample Tag illustration (front & back)	43
Figure 21. Sex determination in sharks	45
Figure 22. Cross section and whole views of female swordfish gonads	46
Figure 23. Cross section and whole views of male swordfish gonads	47
Figure 24. Ventral view of a female lobster	48
Figure 25. Ventral view of male lobster	48
Figure 26. Ventral view of female crab abdomen	49
Figure 27. Ventral views of male crab abdomen	49
Figure 28. Marine Mammal carcass tag	51
Figure 29. Cetacean body measurements.....	51
Figure 30. Pinniped body measurements	51

Figure 31. External sex characteristics of cetaceans	52
Figure 32. External sex characteristics of pinnipeds	52
Figure 33. Additional measurements for Bottlenose Dolphins	53
Figure 34. Tyvek sample tag	53
Figure 35. Internal organs of cetaceans	54
Figure 36. Internal organs of pinnipeds	54
Figure 37. Commonly used bird bands	55
Figure 38. Example of bird with tag	55
Figure 39. Inconel turtle tags.....	56
Figure 40. Sea turtle measurements	56
Figure 41. Proper positioning of a turtle for resuscitation.....	57
Figure 42. American shad and hickory shad	58
Figure 43. Blueback herring and alewife	59
Figure 44. Little skate and winter skate	60
Figure 45. Loligo squid and illex squid	61

List of Figures (con't)

Figure 46. Atlantic sturgeon and shortnose sturgeon	62
Figure 47. Little tunny, Atlantic bonito and skipjack tuna	63
Figure 48. Mathematical formulas for calculating the volume of a fish tote or basket	67